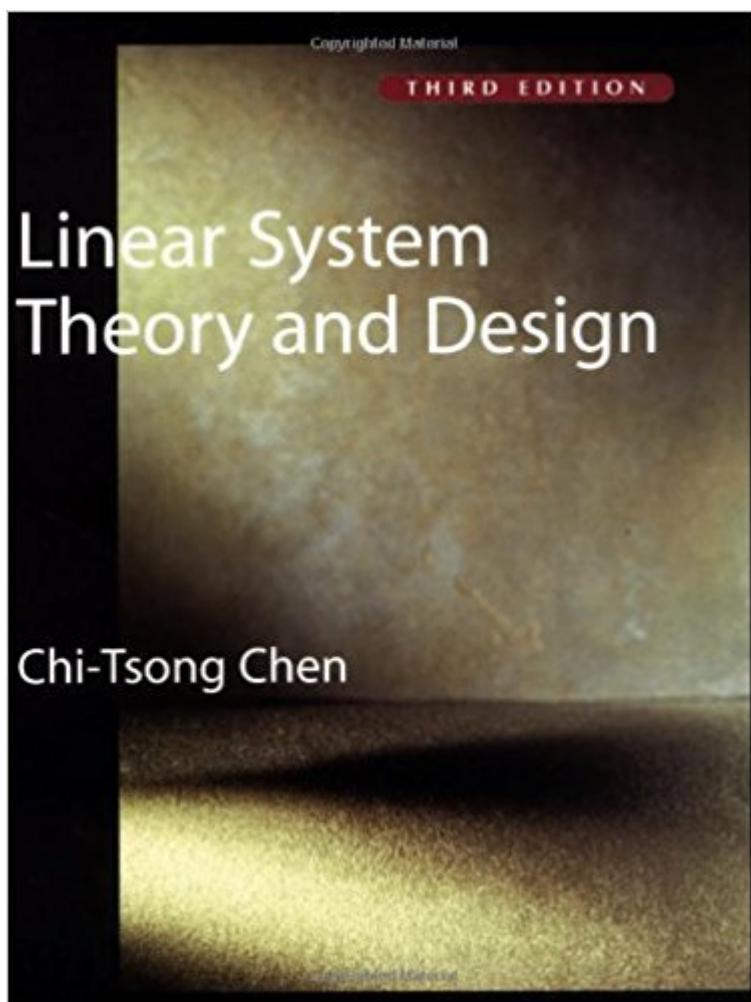


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# Linear System Theory And Design (The Oxford Series In Electrical And Computer Engineering)



## **Synopsis**

This text is an extensive revision of the author's highly successful text, "Linear Systems Theory and Design". In the third edition, the author is revising his formerly more theoretical approach to the topic of linear systems, choosing instead a more general approach that will appeal to a wider audience. A key feature of the revision is the incorporation of MATLAB throughout the text, with an emphasis on the ideas behind the computation and the interpretation of the results. The user-friendly approach to linear systems strikes a balance between theory and applications. The text is intended for undergraduate students of linear systems and multivariable system design.

## **Book Information**

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## **Customer Reviews**

"The downsizing of theory in this third edition of the text makes the book a standard linear system text for a senior or first graduate course in the subject....The standard text in linear systems."--Salah Yousif, California State University, Sacramento"Excellent text!"--P. Givi, State University of New York at Buffalo"An excellent textbook for a first year graduate course on linear control."--Wei Lin, Case Western Reserve University

Chi-Tsong Chen is at State University of New York, Stony Brook.

This is the first textbook for grad-level control systems. It is engineering textbook, so it shows

derivation, but doesn't show any rigorous proof. Organization, explanation, examples... everything is very good. I took a class that uses only class note, and this textbook saved me. It doesn't skip any step nor use any esoteric math. Also, it has many examples. Overall, a friendly textbook for control engineers.

Material in this book is very well presented in a concise and straightforward manner. However, I was unable to find some "important" things from linear system theory. For instance, Schur's determinant formula is used, but I was unable to find anything on the Schur complement in this book (which I thought was strange). Some other less common topics are given excellent attention, such as coprime factorizations and decoupling compensator design. This book also offers criteria for the stability of linear time varying systems which I have not seen elsewhere. Overall, this is a cool book. It is probably impractical to expect that one book should have everything about linear systems and control in one place. This book explains the things that it explains very well, so it gets 5 stars.

I thought this book was very useless. We had a homework problem assigned (The one describing a satellite in orbit around Earth asking us to solve for its movement using Lagrange's equation in CH1) and found many errors in the solutions provided by Chen. I understand Chen is very good at what he does, but he is NOT the brightest in explaining and demonstrating his ideas to graduate students. His examples are very hard to follow and 2 of my fellow classmates opted for purchasing other textbooks to actually learn from. Some of these books were in linear algebra and other on modern control. This book is only good, in my opinion, if you have the solutions manual because otherwise the problems solved within the chapter are not easy to understand. Chen skips many crucial steps stalling the reader from getting useful info required for class. I never used the solns manual; but from other classes, I have found them to be a great tool to moving swiftly through the homework and really getting experience in solving problems "the right way." The solns manual is being sold here on for \$40. As a reference I used Modern Control Engineering by Paraskevopoulos, P. N (2002) and it proved to be extremely helpful. There are also other books similar to this out there, you just have to search.

The Book is like brand new! I like it!

This book is really well written and easy to follow.

It was nice but used

This is a complete book on theory of linear systems. It promises detailed analyzes on all aspects of the theory. It is more detailed than 3rd edition. It is strongly recommended.

Love this book. The book is as new as it is not read ever. The seller response very fast. I got the book in well packed package . Awesome! How ever, the delivery is not that fast. Overall , I am as happy as I could be.

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